# JPL JIT BAR-CODE SPECIFICATION

This document provides specifications for bar-code labels that are to be applied to all deliveries of material purchased from JIT vendors. Bar code labels must be generated automatically from electronic files without manual input.

1.0 Bar Code Software
- 1.1 The following products are examples of software that can offer the necessary elements to meet the bar code requirements.
  - 1.1.1 Label Matrix by Strandware – Windows version preferred
  - 1.1.2 BAR-ONE by Zebra Software

2.0 Bar Code Printer
- 2.1 The following items are required for printing the bar code labels.
  - 2.1.1 Zebra Stripe S-500 Thermal Transfer Bar Code Printer
  - 2.1.2 4" x 4" Coated paper roll feed labels and ribbon compatible with the Zebra S-500 Printer

3.0 Acceptable JPL JIT Delivery Label
- 3.1 Physical characteristics of the delivery label:
  - 3.1.1 Label stock shall be Ricoh 130 IA or equivalent.
  - 3.1.2 Labels shall have a minimum of 15 square inches of printable space. A 4 x 4-inch label is recommended with a 4-inch width required.
  - 3.1.3 Selected labels shall be standard white coated stock for use with thermal transfer or direct thermal bar code printers.
  - 3.1.4 The label stock shall use permanent adhesive.
  - 3.1.5 Label stock shall be sufficiently scuff and wear resistant to meet scanability requirements.

- 3.2 Each label must contain the following information:
  - 3.2.1 An title of "JPL Just-In-Time".
  - 3.2.2 JPL JIT Materiel Release Number in bar-code format in accordance with 3.0 and 5.0 below.
  - 3.2.3 JPL JIT Materiel Release Number in human readable format in accordance with 3.0 and 5.0 below.
  - 3.2.4 The name of the JPL recipient.
  - 3.2.5 The JPL internal delivery address.
  - 3.2.6 Phone number
  - 3.2.7 Container number of total number of containers.
  - 3.2.8 The JPL internal delivery route number.
  - 3.2.9 Identification of Hazardous Material and the associated United Nations identification number (UN Number), if applicable.
  - 3.2.10 Items 3, 4, 5 and 6 above must be in at least 14 point type.
  - 3.2.11 Items 1 and 7 must be in at least 18 point type.

3.2.12 Quantity shipped in human readable form.

Note: Items 3.2.1, 3.2.2, 3.2.3, 3.2.4, 3.2.5, 3.2.6, and 3.2.8 will be provided in an EDI transaction. Items 3.2.7 and 3.2.12 will be data input by Contractor prior to printing the label.

4.0 Bar Code Printing

4.1 The acceptable bar-code symbology is Uniform Code Council (UCC) standard 3 of 9.

4.2 Bars must conform to UCC Standard Code 3 of 9 specifications, be at least 0.5 inch in height, printed in standard pitch, with adequate quiet space on all sides to enable accurate scanning.

4.3 Provision for UCC Standard Code 3 of 9 check digit, if required by JPL.

5.0 "OVERWRAP" Delivery Label Specification

5.1 When multiple materiel releases/orders are packaged together in a large container, overwrap label must be affixed to the outside of the outer container.

5.2 The overwrap label must contain the following information:

5.2.1 A title of "JPL Just-In-Time".

5.2.2 The word "OVERWRAP" in accordance with 3.0 above.

5.2.3 The word "OVERWRAP" human readable format.

5.2.4 All other label requirements mentioned above.

6.0 Bar-code Quality Requirements

6.1 All bar-codes must grade as "B" or above (as measured with a calibrated bar-code verifier at receipt at JPL) 99% of the time.

7.0 Examples of Acceptable Bar-coded Delivery Labels

The following labels are examples of acceptable labels for attachments to product(s) delivered to JPL:

7.1 Example of Standard Delivery Label.

7.2 Example of “OVERWRAP” Label.

8.0 JPL JIT Materiel Release Number Format

The 18-character Materiel Release (MR) number that is to be bar-coded is composed of the following elements:

8.1 Characters 1 through 12 will be supplied and make up the actual Materiel Release number (e.g., MR9400010106).

8.2 Characters 1 & 2 are the letters “MR”, which represent Materiel Release.

8.3 Characters 3 & 4 are the first and last digits of the JPL fiscal year 9e.g.2002=22).

8.4 Characters 5 through 10 are the MR number.

8.5 Characters 11 & 12 are the line item number.

8.6 Characters 13 & 14 are the container number (e.g. 1 of X) per line item.

8.7 Characters 15 & 16 are the total number of containers per line item (e.g. X of 10).

8.8 Characters 17 through 21 are the total quantity of items shipped per line item. (It is not the number placed in a single container unless there is only one container.)